Sl. No.	Name of Chemical Pesticides
238	Zinophos
239	Ziram
240	O, O-Dimethyl-s-Ethylmercaptoethyl thiophosphate
241	1,1,2,2-Tetrachloroethane
242	1,2-Dibromo-3-Chloropropane (DBCP)
243	2-Methoxyethyimercury chloride (M EMC)
244	2-Thiohydantoin
245	2,3,4,5-Tetrachlorophenol
246	2,3,4,6-Tetrachlorophenol
247	2,3,5,6-Tetrachlorophenol
248	2,4-Dinitrophenol
249	2,4-DB
250	2,4-DP
251	2,4,5-T
252	2,4,5-Trichlorophenol.

Effect of Chemical Fertilizers on Soil Structures

1559. SHRI SOM PAL : Will the Minister of AGRICULTURE be pleased to state :

(a) whether it is a fact that chemical fertilizers are affecting our soil structures & soil organisms adversely ;

(b) whether it is also a fact that several micro-nutrients in our soil are depleting due to over exploitation, monoculturing of a few crops and over use of fertilizers ;

(c) if so, what are the details thereof and what is being done to tackle these problems ; and

(d) if not, the reasons therefor ?

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (SHRI ARVIND NETAM) : (a) There are no reports of chemical fertilizers adversely affecting soil structure and soil organisms .

(b) Micro-nutrient deficiencies may occur due to their inadequate presence in soils Exclusive use of high analysis chemical fertilizers which contain only N.P.K. and may also result in micro-nutrient deficiencies in intensively cultivated soils.

(c) and (d) The statement of micro-nutrient survey conducted by ICAR indicating the sumber of soil samples analysed and the percent sample found non-standard is enclosed (*See below*)

Apart from recommending the use of micro-nutrient fertilizers, integrated use of organic manures and chemical fertilizers is advocated. Organic manures also supply micro-nutrients and help in building soil structure and soil micro-flora.

Statement

MICRO-NUTRIENT SURVEY BY ICAR

Extent of Micronutrient-deficiencies in different States

State	Zinc		Copper		Maganese		Iron		Boron	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
1 Andhra Pradesh . . .	4845	53	3663	0	3637	1	3596	1		
2 Bihar	10277	45	10476	2	9228	1	9462	4	1487	38
3 Gujarat	26016	24	25943	5	25971	1	24576	8	1991	2
4 Haryana	19508	64	18274	3	17944	4	17844	25		
5 Madhya Pradesh . . .	10382	65	9541	1	9636	3	9581	3		
6 Punjab	13261	50	13261	1	13261	2	13261	13		
7 Tamil Nadu . . .	12478	43	11447	21	11709	8	12071	15		
8 A. P.	8754	64	8057	1	8135	3	8636	8		
9 Karnataka	2318	25	2318	9	2318	1	2318	2		

NOTE : (1)—No. of samples analysed.
(2)—Examples found deficient.